PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference P13126/MA				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No. PCT/EP 03/12482				International filing date 07.11.2003	(day/month/year)	Priority date (day/month/year) 07.11.2002	
	nation		ent Classification (IPC) or b	oth national classification	and IPC		
1	icant NY E	RICS	SON MOBILE COMM	IUNICATIONS AB E	T AL.		
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2.	This	REP	ORT consists of a total of	of 5 sheets, including t	his cover sheet		
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of 4 sheets.						
3.	This	repoi	t contains indications re	lating to the following i	tems:		
	1	\boxtimes	Basis of the opinion				
	H		Priority				
	Ш		Non-establishment of o	opinion with regard to r	ovelty, inventiv	e step and industrial applicability	
	IV		Lack of unity of inventi-				
	V		Reasoned statement u citations and explanation	nder Rule 66.2(a)(ii) w ons supporting such st	ith regard to no atement	velty, inventive step or industrial applicability;	
	VI		Certain documents cité				
	VII		Certain defects in the i	nternational application	1		
-	VIII	□ .	Certain observations o	n the international app	lication		
Date of submission of the demand					Date of comple	tion of this report	
01.06.2004					04.03.2005		
Name and mailing address of the international preliminary examining authority:					Authorized Offi	COT	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/12482

 Basis of the repo 	he report	th	of	is	as	. в	I.
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages	
	1-6		as originally filed
	Cla	ims, Numbers	
		•	08
	1-2	B	received on 20.08.2004 with letter of 18.02.2004
	Dra	wings, Sheets	
	1		as originally filed
2.	With lang	h regard to the lang u guage in which the in	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.
	The	se elements were av	vailable or furnished to this Authority in the following language: , which is:
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pub	lication of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under .3).
3.	Witl inte	n regard to any nucl e rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	rnational application in written form.
		filed together with th	e international application in computer readable form.
		furnished subseque	ntly to this Authority in written form.
		furnished subseque	ntly to this Authority in computer readable form.
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

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	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-28

No: Claims

Inventive step (IS) Yes: Claims

No: Claims 1-28

Industrial applicability (IA) Yes: Claims 1-28

No: Claims

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. The following documents (D1-D3) are referred to in this communication; the numbering will be adhered to in the rest of the procedure:
 - D1: US 2001/005171 A1 (FARRINGDON JONATHAN ET AL) 28 June 2001 (2001-06-28)
 - D2: WO 02 076136 A (STROEM PATRIK ;TELEFONAKTIEBOLAG L M ERICSSON (SE)) 26 September 2002 (2002-09-26)
 - D3: WO 02 076118 A (SIGNALSOFT CORP) 26 September 2002 (2002-09-26)
- 2. The present application does not meet the requirements of the PCT, since the subject-matter of independent claims 1 and 14 does not involve an inventive step in the sense of Art. 33(3) PCT.
- 2.1. D1 is regarded to be the closest prior art cited in the search report. To Claim 1, it discloses (references in brackets applying to D1), a device for generating an alert(Paragraph 011), comprising positioning means for updating and storing an actual position of the device (Par. 0010. The position is necessarily stored, since the actual position is compared with the alert triggering positions. Storing is a general concept that doesn't exclude any particular type of register), along with
 - location storage means for storing the location of places of interest (Par. 0009)
 - means for storing a request for an alert signal associated with the location of a place of interest (Par. 0008, 0009)
 - trigger means for comparing the actual position of the device with the location of a place of interest and triggering generation of said alert signal when the distance between the actual position of the device and the location of a place of interest is less than a predetermined value (Par. 0013, 0042).

Claim 1 differs from the cited prior art in merely that the positioning means is arranged to update the actual position of the device every time the device has moved a distance. This feature is not clear, insofar it is not devisable how the positioning

means can update the position when the position has changed a distance. Either it's the evaluation of the alert information the one updated, or the visualisation of the position which is put to date. In either case, neither of these options (not unambiguously disclosed, in any case, so unacceptable under the provisions of Arts. 28(2) and 34(2) concerning added subject matter) would involve an inventive step, since the person skilled in the art would consider recalculating the location dependent information and reconsidering the alerts upon a given change in position as a normal design procedure.

The optional feature (for instance 100 metres) does not incorporate any restriction to the scope of the claim whatsoever, and could not be regarded as inventive even if incorporated unconditionally. It merely reflects a design option.

The subject matter of claim 1 does not involve an inventive step. It is to be noticed that a similar analysis could be undertaken, using D2 -which uses the telephone network for assessing the position. See references cited in the search report- as a basis for the assessment, and arriving at the same conclusion.

- 2.2. Independent claim 14 details the corresponding method, being the features present analogous. It can neither be regarded as fulfilling the inventive step requirement as set forth in Art 33(3) PCT.
- 2.3. The subject matter represented by the features of dependent claims 2 to 13, 15 to 28 in combination with the claims they refer to, does not involve an inventive step as required by Art 33(3) PCT. The subject matter in claims 2-6,9-19 22-26 is already disclosed by D1 and/or D2 alone. They do not fulfil the inventive step requirement. See hereto relevant passages cited in the search report. The subject matter of claims 7, 8, 20 and 21 cannot be regarded as involving any inventive step. The features claimed are a matter of normal design procedure when it comes to update positioning data, see for example document D3 and its citations from the search report. Its inclusion in the alert system and method described in document D1 would therefore be an obvious design possibility for the skilled person in order to solve the problem posed. similarly, Claims 27 and 28 only reflect well known positioning technologies and applications of these kind of system, whose use is also disclosed by D3.

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CLAIMS



- 1. A device for generating an alert signal comprising: positioning means for updating and storing an actual position of the device; comprising:
- location storage means for storing the location of a place of interest;
 means for storing a request for an alert signal associated with the location of a
 place of interest; and
 trigger means for comparing the actual position of the device with the location
 of a place of interest and triggering generation of said alert signal when the
 distance between the actual position of the device and the location of a place of
 interest is less than a predetermined value (r); characterised in that
 the positioning means is arranged to update the actual position of the device
 every time the device has moved a distance, for instance 100 meters.

2. A device according to claim 1, characterised in that the predetermined value (r) is variable, and may be set individually for each request for an alert signal.

- 3. A device according to claim 1 or 2, characterised in that the location storage means includes a personal map program.
 - 4. A device according to claim 1, 2 or 3, **characterised** in that the location storage means includes a browser for finding locations on a telecommunications network.
 - 5. A device according to claim 4, characterised in that the browser is a WAP browser for finding locations on the Internet.
- 6. A device according to any one of claims 1 to 5, characterised in that the positioning means further is arranged to update the actual position of the device every time the device changes base station.
- 7. A device according to any one of claims 1 to 6, characterised in that the positioning means further is arranged to update the actual position of the device at regular time intervals.
 - 8. A device according to any one of claims 1 to 7, characterised in that the positioning means further is arranged to update the actual position of the device in dependence of the speed of the device.

- 9. A device according to any one of the preceding claims, characterised by further comprising:
 - calendar means for storing calendar entries;
- clock means for keeping track of the actual time;
 further trigger means for comparing the actual time with a calendar entry and
 triggering generation of said alert signal when the actual time matches the
 calendar entry, but only when the distance between the actual position of the
 device and the location of a place of interest is less than the predetermined value
 (r).
 - 10. A device according to claim 9, characterised in that the calendar entry matches the actual time once only.
- 15 11. A device according to claim 9, characterised in that the calendar entry matches the actual time repeatedly for a specified time unit, such as day/week/month/year.
- 12. A device according to any one of the preceding claims, characterised in that the positioning means comprises a GPS receiver.
 - 13. A device according to any one of the preceding claims, characterised in that the device is a portable telephone, a pager, a communicator, a smart phone, a positioning device or an electronic organiser.
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- 14. A method for generating an alert signal in a device comprising the steps of: updating and storing an actual position of the device; storing the location of a place of interest;
- storing a request for an alert signal associated with the location of a place of interest; and
 - comparing the actual position of the device with the location of a place of interest and triggering generation of said alert signal when the distance between the actual position of the device and the location of a place of interest is less than a predetermined value (r);
- characterised by the further steps of:
 updating the actual position of the device every time the device has moved a
 distance, for instance 100 meters.
 - 15. A method according to claim 14, characterised in that the predetermined

value (r) is variable, and is set individually for each request for an alert signal.

16. A method according to claim 14 or 15, characterised in that the location storage is supplied by means of a personal map program.

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- 17. A method according to claim 14, 15 or 16, characterised in that the location storage is supplied by means of a browser for finding locations on a telecommunications network.
- 10 18. A method according to claim 17, characterised in that the browser is a WAP browser for finding locations on the Internet.
 - 19. A method according to any one of claims 14 to 18, **characterised** in that the actual position of the device further is updated every time the device changes base station.
 - 20. A method according to any one of claims 14 to 19, characterised in that the actual position of the device further is updated at regular time intervals.
- 20 21. A method according to any one of claims 14 to 20, characterised in that the actual position of the device further is updated in dependence of the speed of the device.
- 22. A method according to any one of claims 14 to 21, characterised by the further steps of:

storing calendar entries;

keeping track of the actual time;

comparing the actual time with a calendar entry and triggering generation of said alert signal when the actual time matches the calendar entry, but only when the distance between the actual position of the device and the location of a place of

- interest is less than the predetermined value (r).
- 23. A method according to claim 22, characterised in that the calendar entry matches the actual time once only.

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24. A method according to claim 22, characterised in that the calendar entry matches the actual time repeatedly for a specified time unit, such as day/week/month/year.

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- 25. A method according to any one of claims 14 to 24, **characterised** in that the step of updating and storing the actual position of the device comprises receiving GPS signals.
- 5 26. A method according to any one of claims 14 to 24, characterised in that the step of updating and storing the actual position of the device comprises receiving position information from a mobile telecommunication network.
- 27. A method according to claim 26, characterised in that the mobile telecommunication network uses EOTD (Enhanced Observed Time Difference) or OTDOA (Observed Time Difference On Arrival).
- 28. A method according to any one of claims 14 to 27, characterised in that the device is a portable telephone, a pager, a communicator, a smart phone, a positioning device or an electronic organiser.